

Atty. Dkt. WEAT/0526.P1

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of: Vail III

Serial No.: 10/717,422

Confirmation No.: 7770

Filed:

November 19, 2003

For:

Methods and Apparatus for

Cementing Drill Strings in Place for One Pass Drilling and

Completion of Oil and Gas Wells

MAIL STOP AMENDMENT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Group Art Unit: 3672

Examiner:

Unknown

Customer No.: 36735

CERTIFICATE OF MAILING 37 CFR 1.8

I hereby certify that this correspondence is being deposited with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on 30 Nul

Kyla D. Cummings Typed Name

## INFORMATION DISCLOSURE STATEMENT

The Applicant, and the Attorney who signs below on the basis of the information supplied by the inventor and the information in his file, submit herewith patents, publications, or other information of which they are aware, which may be material to the examination of this application and in respect of which there may be a duty to disclose in accordance with 37 CFR § 1.56.

While the information submitted in this Information Disclosure Statement may be material pursuant to 37 CFR § 1.56, it is not intended to constitute an admission that any patent, publication, or other information referred to therein is prior art for this invention unless specifically designated as such.

In accordance with 37 CFR § 1.97, this Information Disclosure Statement is not to be construed as a representation that a search has been made or that no other possibly material information as defined under 37 CFR § 1.56(a) exists.

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180.00 DA

If the sum of \$180.00 is due under 37 CFR § 1.17(p) pursuant to § 1.97, the Commissioner is hereby authorized to charge this fee, and any other fee necessary to make this submission timely, to the Deposit Account No. 20-0782/WEAT/0526.P1/WBP.

Respectfully submitted,

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(Use as many sheets as necessary)

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Substitute for form 1449A/PTO		Application Number	10/717,422
	AUB 0 2 2004 &	Filing Date	November 19, 2003
INFORMATION DIS	OSUBE	First Named Inventor	Vail III
STATEMENT BY A	PEU INAN	Group Art Unit	3672
		Examiner Name	Unknown

Attorney Docket Number

Submission Date

WEAT/0526.P1

July 30, 2004

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	B1	DE 3 213 464	10/13/1983	Reimer					
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10/717,422 Substitute for form 1449A/PTO Application Number Filing Date November 19, 2003 INFORMATION DISCLOSURE First Named Inventor Vail III STATEMENT BY APPLICANT 3672 **Group Art Unit Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0526.P1

Sheet	2			29	Subm	nission Date	July 3	0, 2004
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OTATEMENT BY ALL EIGHT		Examiner Name	Unknown		
(Use as many sheets as necessary)			)	Attorney Docket Number	WEAT/0526.P1
Shoot	3	of	20	Submission Date	July 20, 2004

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10/717,422 Application Number Substitute for form 1449A/PTO Filing Date November 19, 2003 Vail III First Named Inventor INFORMATION DISCLOSURE 3672 Group Art Unit STATEMENT BY APPLICANT Examiner Name Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0526.P1

Submission Date

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10/717,422 Substitute for form 1449A/PTO Application Number November 19, 2003 Filing Date First Named Inventor Vail III INFORMATION DISCLOSURE Group Art Unit 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0526.P1

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Examiner	Cite	Document Number	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where				
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Sheet	6	of	29	Submission Date	July 30, 2004

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	(Use as many sheets as n	ecessary	)	Attorney Docket Number	WEAT/0526.P1
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		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Figures Appear	
	B27	USSR 112631	01/10/1956	Barshai, et al.		
	B28	USSR 1304470	08/31/1984	Gelfat, et al.		
	B29	USSR 1808972	05/22/1991	Voroshbitov, et al.		
	B30	USSR 247162	05/10/1967	Barshai, et al.	4	
,	B31	USSR 395557	12/30/1971	Barshai, et al.		
,	B32	USSR 415346	03/03/1972	Barshai, et al.		
,	B33	USSR 461218	04/23/1973	Barshai, et al.		
•	B34	USSR 481689	06/09/1972	Barshai, et al.		
	B35	USSR 501139	12/14/1973	Barshai, et al.		
	B36	USSR 581238	02/23/1976	Barshai, et al.		
	B37	USSR 583278	08/30/1974	Barshai, et al.	·	
	B38	USSR 585266	07/26/1974	Barshai, et al.		
	B39	USSR 601390	01/12/1976	Barshai, et al.		
	B40	USSR 655843	03/22/1977	Barshai, et al.		
	B41	USSR 659260	04/02/1967	Barshai		
	B42	USSR 781312 .	03/07/1978	Barshai, et al.		
	B43	USSR 899820	06/29/1979	Alikin, et al.		
	B44	USSR 955765	02/09/1981	Gelfat, et al.		
	B45	WO 00/37766	06/29/2000	Simpson, et al.	2 2	
	B46	WO 01/83932	11/08/2001	Tulloch		
•	B47	WO 90/06418	06/14/1990	Schulze-Bechinghausen		
	.B48	WO 92/01139	01/23/1992	Nobilequ		
	B49	WO 92/18743	10/29/1992	Pietras		
	B50	WO 92/20899	11/26/1992	Ellis		<u> </u>
	B51	WO 93/24728	12/09/1993	Simpson		<u> </u>

Examiner

Date Considered

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	. Under th	e Panerwork Red	uction Act of 1995	no persons are required to respond to a collec-	tion of information unless it displays a valid OMB control num	be
Substitute	for form 1449A/PTC	)		Application Number	10/717,422	1
				Filing Date	November 19, 2003	
INFO	RMATION I	DISCLO	SURE	First Named Inventor	Vail III	
STAT	<b>TEMENT BY</b>	APPLI	CANT	Group Art Unit	3672	
				Examiner Name	Unknown	
e e e e e e e e e e e e e e e e e e e	(Use as many sheet	s as necessar	<b>y)</b>	Attorney Docket Number	WEAT/0526.P1	_
Sheet	8	of	29	Submission Date	July 30, 2004	

Examiner	Cite	Foreign Patent Document	Publication Date Name of Patentee or		Pages, Columns, Lines,	T⁵
Initials*	No.1	Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>3</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document	Where Relevant Passages or Relevant Figures Appear	
	B52	WO 95/10686	04/20/1995	Lorenz, et al.		
	B53	WO 96/28635	09/19/1996	Strong, et al.		
- <del></del>	B54	WO 98/09053,	03/05/1998	Murray, et al.	1	
	B55	WO 99/23354	05/14/1999	Metcalfe		
	B56	WO 99/37881	07/29/1999	Kirk, et al.		
:	B57	WO 99/50528	10/07/1999	Kuck, et al.		
	B58	WO 99/64713	12/16/1999	Wardley		
	B59	WO 99/11902	03/11/1999	Hollingsworth.		
··	B50	FR 2053088	07/20/1970	Gottwald		
	B72	WO 00/08293	02/17/2000	Van Drentham-Susman		
	B73	WO 91/16520	10/31/1991	Hallundbaek	·	
	B74					
	B75		-			
	B76					
	B77	·				
	B78					

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Date Considered

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The PTO did not receive the following listed Items(s) Raf. No CI toC66 are marry

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	Under the Paperw	ork Redu	ction Act of 1995.	no persons are required to respond to a collect	tion of information unless it displays a valid OMB control number	ber.
Substitute	for form 1449B/PTO			Application Number Filing Date	10/717,422 November 19, 2003	_
INFORMATION DISCLOSURE		First Named Inventor	Vail III	_		
	TEMENT BY AP			Group Art Unit	3672	
0.71		• =:		Examiner Name	Unknown	
(Use as many sheets as necessary)				Attorney Docket Number	WEAT/0526.P1	-
Sheet	9	of	29	Submission Date	July 30, 2004	

Silee	1 3	or 29 Submission Date July 30, 2004						
		NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T²					
	C1	HAHN, ET AL., "Simultaneous Drill and Case Technology - Case Histories, Status and Options for Further Development, " Society of Petroleum Engineers, IADC/SPE Drilling Conference, New Orlean, LA Feb. 23-25, 2000 pp. 1-9.						
	C2	M.B. STONE and J. SMITH, "Expandable Tubulars and Casing Driling are Options" Drilling Contractor, January/February 2002, pp. 52.						
	СЗ	M. GELFGAT, "Retractable Bits Development and Application" Transactions of the ASME, Vol. 120, June (1998), pp. 124-130.						
	C4	"First Success with Casing-Drilling" Word Oil, February (1999), pp. 25.						
	C5	DEAN E. GADDY, Editor, "Russia Shares Technical Know-How with U.S." Oil & Gas Journal, March (1999), pp. 51-52 and 54-56.						
1	C6	United States Patent Application 10/794,800, filed March 5, 2004 (WEAT/0360)						
<del></del>	C7	United States Patent Application 10/832,804, filed April 27, 2004 (WEAT/0383.P1)						
	C8	United States Patent Application 10/795,214, filed March 5, 2004 (WEAT/0373)						
	C9	United States Patent Application 10/794,795, filed March 5, 2004 (WEAT/0357)						
	C10	United States Patent Application 10/775,048, filed February 9, 2004 (WEAT/0359)						
	C11	United States Patent Application 10/772,217, filed February 2, 2004 (WEAT/0344)						
	C12	United States Patent Application 10/788,976, filed February 27, 2004 (WEAT/0372)						

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Examiner	Date Co	onsidered
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<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

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Substitute	for form 1449B/PTO			Application Number	10/717,422
				Filing Date	November 19, 2003
INFO	RMATION DIS	SCLOS	SURE	First Named Inventor	Vail III
	EMENT BY A			Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as	necessary		Attorney Docket Number	WEAT/0526.P1
Sheet	10	of	29	Submission Date	July 30, 2004

		OI 25 Outrinssion Date Suly 30, 2004	
		NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Τ²
	C13	United States Patent Application 10/794,797, filed March 5, 2004 (WEAT/0371)	
	C14	United States Patent Application 10/767,322, filed January 29, 2004 (WEAT/0343)	
	C15	United States Patent Application 10/795,129, filed March 5, 2004 (WEAT/0366)	
	C16	United States Patent Application 10/794,790, filed March 5, 2004 (WEAT/0329)	
	C17	United States Patent Application 10/162,302, filed June 4, 2004 (WEAT/0410)	
	C18	Rotary Steerable Technology – Technology Gains Momentum, Oil & Gas Journal, 12/28/1998	•
	C19	Directional Drilling, M. Mims, World Oil, May 1999, pp. 40-43	
	C20	Multilateral Classification System w/Example Applications, Alan MacKenzie & Cliff Hogg, World Oil, Jan. 1999, pp. 55-61	
	C21		
	C22		
	C23		
··	C24		

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**Date Considered** 

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	Substitute	for form 1449A/PTO			Application Number	10/717,422
٠.			•		Filing Date	November 19, 2003
	INFO	RMATION DI	SCL OS	SURF	First Named Inventor	Vail III
		EMENT BY			Group Art Unit	3672
	017.			<b>.</b>	Examiner Name	Unknown
		(Use as many sheets as	s necessary,	) ·	Attorney Docket Number	WEAT/0526.P1
	Sheet	11	of	29	Submission Date	July 30, 2004

*Examine r Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A120	6,591,471	07-15-2003	Hollingsworth et al.		<u> </u>	
	A121	6,554,064	04-29-2003	Restarick et al.	<del>                                     </del>		
	A122	6,538,576	03-25-2003	Schultz et al.	<u> </u>	1	
	A123	6,536,520	03-25-2003	Snider et al.			
	A124	6,527,064	03-04-2003	Hallundbaek			
	A125	6,527,047	03-04-2003	Pietras			
	A126	6,497,280	12-24-2002	Beck et al.			
	A127	6,484,818	11-26-2002	Alft et al.			·
	A128	6,464,004	10-15-2002	Crawford et al.			
	A129	6,443,247	09-03-2002	Wardley			
	A130	6,443,241	09-03-2002	Juhasz et al.			
	A131	6,427,776	08-06-2002	Hoffman et al.			
	A132	6,419,033	07-16-2002	Hahn et al.			
	A133	6,419,014	07-16-2002	Meek et al.			
	A134	6,412,574	07-02-2002	Wardley et al.			
	A135	6,412,554	07-02-2002	Allen et al.			
	A136	6,408,943	06-25-2002	Schultz et al.	<u> </u>		
	A137	6,405,798	06-18-2002	Barrett et al.		:	
	A138	6,397,946	06-04-2002	Vail, III			
	A139	6,378,630	04-30-2002	Ritorto et al.			
	A140	6,378,627	04-30-2002	Tubel et al.			
	A141	6,374,924	04-23-2002	Hanton et al.			
	A142	6,371,203	04-16-2002	Frank et al.			
Examiner					Date 0	Considered	

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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	Substitute for form 1449A/PTO	· •		Application Number	10/717,422
٠.				Filing Date	November 19, 2003
	INFORMATION I	DISCLOS	SURE	First Named Inventor	Vail III
	STATEMENT BY			Group Art Unit	3672
:				Examiner Name	Unknown
	(Use as many sheet	s as necessary	)	Attorney Docket Number	WEAT/0526.P1
	Sheet 12	of	29	Submission Date	July 30, 2004

U.S. Pate	nt Docu	iments		,		· .	<u> </u>
*Examine r Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A143	6,359,569	03-19-2002	Beck et al.			
	A144	6,357,485	03-19-2002	Quigley et al.			
	A145	6,343,649	02-05-2002	Beck et al.			
	A146	6,325,148	12-04-2001	Trahan et al.			
	A147	6,315,051	11-13-2001	Ayling			
	A148	6,311,792	11-06-2001	Scott et al.			
	A149	6,296,066	10-02-2001	Terry et al.			
	A150	6,263,987	07-24-2001	Vail, III			
	A151	6,234,257	05-22-2001	Ciglenec et al.	•		
	A152	6,220,117	04-24-2001	Butcher			
	A153	6,206,112	03-27-2001	Dickinson, III et al			
	A154	6,196,336	03-06-2001	Fincher et al.			
	A155	6,189,621	02-20-2001	Vail, III			·
	A156	6,182,776	02-06-2001	Asberg			
	A157	6,172,010	01-09-2001	Argillier et al.			
	A158	6,170,573	01-09-2001	Brunet et al.			
	A159	6,158,531	12-12-2000	Vail, III	T		
Examiner				· · · · · · · · · · · · · · · · · · ·	Date C	Considered	<u> </u>

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to

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Substitute for form 1449A/PTO	Application Number	10/717,422
	Filing Date	November 19, 2003
INFORMATION DISCLOSURE	First Named Inventor	Vail III
STATEMENT BY APPLICANT		3672
	Examiner Name	Unknown
(Use as many sheets as necessary)	Attorney Docket Number	WEAT/0526.P1
Sheet 13 of 29	Submission Date	July 30, 2004

U.S. Pate	nt Docu	ments						
*Examine r Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate	
	A160	6,119,772	09-19-2000	Pruet				
	A161	6,065,550	05-23-2000	Gardes	: • •			
	A162	6,062,326	05-16-2000	Strong et al.				
	A163	6,061,000	05-09-2000	Edwards				
	A164	6,059,053	05-09-2000	McLeod				
	A165	6,059,051	05-09-2000	Jewkes et al.				
	A166	6,026,911	02-22-2000	Angle et al.		<u> </u>		
	A167	6,000,472	12-14-1999	Albright et al.				
-	A168	5,971,079	10-26-1999	Mullins				
- ·	A169	5,957,225	09-28-1999	Sinor	-	<del>                                     </del>		
	A170	5,950,742	09-14-1999	Caraway				
	A171	5,947,213	09-07-1999	Angle et al.		<u> </u>	,	
	A172	5,931,231	08-03-1999	Mock				
	A173	5,921,332	07-13-1999	Spedale, Jr.				
	A174	5,921,285	07-13-1999	Quigley et al.			,	
	A175	5,913,337	06-22-1999	Williams et al.				
	A176	5,908,049	06-01-1999	Williams et al.				
· · · · · · · · · · · · · · · · · · ·	A177	5,894,897	04-20-1999	Vail, III				
	A178	5,890,549	04-06-1999	Sprehe		•		
	A179	5,890,537	04-06-1999	Lavaure et al.				
	A180	5,860,474	01-19-1999	Stoltz et al.				
<del></del>	A181	5,845,722	12-08-1998	Makohl et al.				
Examiner				-	Date Co	nsidered		

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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	Substitute fo	or form 1449A/PTO			Application Number	10/717,422
•		•			Filing Date	November 19, 2003
٠.	INFOR	MATION DISC	:I ()	SURF	First Named Inventor	Vail III
•		EMENT BY AP			Group Art Unit	3672
•	<b>U</b>		`		Examiner Name	Unknown
	(L	lse as many sheets as ned	cessary	).	Attorney Docket Number	WEAT/0526.P1
	Sheet	14	of	29	Submission Date	July 30, 2004

Examiner nitial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A182	5,842,530	12-01-1998	Smith et al.			
	A183	5,839,519	11-24-1998	Spedale, Jr.			
	A184	5,839,330	11-24-1998	Stokka			
	A185	5,829,520	11-03-1998	Johnson			
	A186	5,828,003	10-27-1998	Thomeer et al.			
	A187	5,785,134	07-28-1998	McLeod et al.			·
	A188	5,746,276	05-05-1998	Stuart			
	A189	5,743,344	04-28-1998	McLeod et al.			
	A190	5,735,348	04-07-1998	Hawkins, III			
	A191	5,732,776	03-31-1998	Tubel et al.			
	A192	5,720,356	02-24-1998	Gardes			
	A193	5,711,382	01-27-1998	Hansen et al.			
	A194	5,667,026	09-16-1997	Lorenz et al.			
	A195	5,667,023	09-16-1997	Harrell et al.			
	A196	5,662,182	09-02-1997	McLeod et al.		· .	
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,	A198	5,661,888	09-02-1997	Hanslik			
	A199	5,651,420	07-29-1997	Tibbitts et al.			
	A200	5,584,343	12-17-1996	Coone			
	A201	5,582,259	12-10-1996	Barr			
	A202	5,560,437	10-01-1996	Dickel et al.			

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute	for form 1449A/PTO			Application Number	10/717,422
				Filing Date	November 19, 2003
INFO	RMATION DISC	a os	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
• • • • • • • • • • • • • • • • • • • •		,	,	Examiner Name	Unkn <b>own</b>
	(Use as many sheets as ne	cessary	)	Attorney Docket Number	WEAT/0526.P1
Sheet	15	of	29	Submission Date	July 30, 2004

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Clas	Subclass	Filing Date If Appropriate
	A203	5,551,521	09-03-1996	Vail, III			:
	A204	5,547,029	08-20-1996	Rubbo et al.			
	A205	5,535,838	07-16-1996	Keshavan et al.		1	
	A206	5,535,824	07-16-1996	Hudson			
·	A207	5,497,840	03-12-1996	Hudson.		* * * * * * * * * * * * * * * * * * * *	
	A208	5,472,057	12-05-1995	Winfree		:	
	A209	5,452,923	09-26-1995	Smith			
	A210	5,386,746	02-07-1995	Hauk		1	
	A211	5,379,835	01-10-1995	Streich			
	A212	5,368,113	11-29-1994	Schulze- Beckinghausen			
	A213	5,355,967	10-18-1994	Mueller et al.			
	A214	5,354,150	10-11-1994	Canales			
	A215	5,353,872	10-11-1994	Wittrisch			
	A216	5,343,950	09-06-1994	Hale et al.			
	A217	5,332,048	07-26-1994	Underwood et al.			
	A218	5,323,858	06-28-1994	Jones et al.	1		
	A219	5,320,178	06-14-1994	Cornette			
	A220	5,305,830	04-26-1994	Wittrisch			
	A221	5,297,833	03-29-1994	Willis et al.	•		
	A222	5,294,228	03-15-1994	Willis et al.	<u> </u>		
Examiner	•		·•	<del></del>	Date	Considere	d ·

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

PTO/SB/08a (08-03)

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Substitute	for form 1449A/PTO			Application Number	10/717,422 November 19, 2003
INFO	RMATION DISC	CLOS	SURE	First Named Inventor	Vail III
	TEMENT BY AF			Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as ne	ecessary	) .	Attorney Docket Number	WEAT/0526.P1
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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
TI II LICAT	A223	5,291,956	03-08-1994	Mueller et al.	<del> </del>		Appropriate
	A224	5,285,204	02-08-1994	Sas-Jaworsky			
• •	A225	5,285,008	02-08-1994	Sas-Jaworsky et al.	-		
	A226	5,282,653	02-01-1994	LaFleur et al.	<del>                                     </del>		
	A227	5,271,472	12-21-1993	Leturno	<u>                                     </u>		
,	A228	5,255,751	10-26-1993	Stogner			
	A229	5,255,741	10-26-1993	Alexander		<u> </u>	
	A230	5,234,052	08-10-1993	Coone et al.	<b>†</b>		
,	A231	5,197,553	03-30-1993	Leturno			
•	A232	5,191,939	03-09-1993	Stokley			
	A233	5,186,265	02-16-1993	Henson et al.			
	A234	5,172,765	12-22-1992	Sas-Jaworsky			
	A235	5,168,942	12-08-1992	Wydrinski			
	A236	5,160,925	11-03-1992	Dailey et al.			
	A237	5,148,875	09-22-1992	Karlsson et al.			
	A238	5,111,893	05-12-1992	Kvelio-Aune			
	A239	5,096,465	03-17-1992	Chen et al.			
	A240	5,082,069	01-21-1992	Seiler et al.			
	A241	5,074,366	12-24-1991	Karlsson et al.			
	A242	5,060,737	10-29-1991	Mohn			

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Substitute	for form 1449A/PTO			Application Number	10/717,422
				Filing Date	November 19, 2003
INFO	RMATION DISC	:1 09	SURE	First Named Inventor	Vail III
	TEMENT BY AP	_		Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as ned	cessary	)	Attorney Docket Number	WEAT/0526.P1
Sheet	17	of	29	Submission Date	July 30, 2004

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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	A244	5,049,020	09-17-1991	McArthur			
	A245	5,027,914	07-02-1991	Wilson			
	A246	5,022,472	06-11-1991	Bailey et al.			
	A247	4,997,042	03-05-1991	Jordan et al.			
•,	A248	4,962,822	10-16-1990	Pascale			
	A249	4,921,386	05-01-1990	McArthur			
	A250	4,880,058	11-14-1989	Lindsey et al.			
	A251	4,854,386	08-08-1989	Baker et al.		1	
	A252	4,843,945	07-04-1989	Dinsdale		<u> </u>	
	A253	4,842,081	06-27-1989	Parant	• •		
	A254	4,832,552	05-23-1989	Skelly			
	A255	4,813,495	03-21-1989	Leach			
	A256	4,765,416	08-23-1988	Bjerking et al.			
	A257	4,762,187	08-09-1988	Haney			
	A258	4,760,882	08-02-1988	Novak			
	A259	4,735,270	04-05-1988	Fenyvesi			
	A260	4,725,179	02-16-1988	Woolslayer et al.			
	A261	4,671,358	06-09-1987	Lindsey, Jr. et al.			
	A262	4,686,873	08-18-1987	Lang et al.			
Examiner				- <b>.</b>	Date C	onsidered	

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INFO	RMATION DISC	. O	SURF	First Named Inventor	November 19, 2003  ned Inventor  Vail III  t Unit  3672  r Name  Unknown  Docket Number  WEAT/0526.P1
				Group Art Unit	3672
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)  Filing Date  First Named Inventor  Group Art Unit  Examiner Name  Attorney Docket Number	Examiner Name	Unknown .			
	(Use as many sheets as ne	cessary	)	Attorney Docket Number	WEAT/0526.P1
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Examiner		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
	A263	4,655,286	04-07-1987	Wood			
·	A264	4,652,195	03-24-1987	McArthur	: :		
	A265	4,651,837	03-24-1987	Mayfield			
	A266	4,630,691	12-23-1986	Hooper	:		
	A267	4,605,077	08-12-1986	Boyadjieff '		:	
<del> </del>	A268	4,604,724	08-05-1986	Shaginian et al.	<u> </u>		
	A269	4,589,495	05-20-1986	Langer et al.			
	A270	4,583,603	04-22-1986	Dorleans et al.			
	A271	4,580,631	04-08-1986	Baugh			
:	A272	4,545,443	10-08-1985	Wiredal			V
	A273	4,544,041	10-01-1985	Rinaldi			-
	A274	4,474,243	10-02-1984	Gaines			
· · · · · · · · · · · · · · · · · · ·	A275	4,472,002	09-18-1984	Beney et al.			
	A276	4,470,470	09-11-1984	Takano			
	A277	4,463,814	08-07-1984	Horstmeyer et al.			
	A278	4,460,053	07-17-1984	Jurgens et al.			
. :	A279	4,440,220	04-03-1984	McArthur			
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	A285	4,315,553	02-16-1982	Stallings			

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. 10/717,422 Substitute for form 1449A/PTO **Application Number** Filing Date November 19, 2003 First Named Inventor Vail III INFORMATION DISCLOSURE Group Art Unit 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) WEAT/0526.P1 Attorney Docket Number Sheet Submission Date July 30, 2004

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	A287	4,281,722	08-04-1981	Tucker et al.			
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	A291	4,175,619	11-27-1979	Davis			
	A292	4,173,457	11-06-1979	Smith			
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	A295	4,100,968	07-18-1978	Delano			
	A296	4,085,808	04-25-1978	Kling		:	
	A297	4,082,144	04-04-1978	Marquis		:	
	A298	4,077,525	03-07-1978	Callegari et al.		:	A N
	A299	4,064,939	12-27-1977	Marquis			
	A300	4,054,426	10-18-1977	White		;	
	A301	4,049,066	09-20-1977	Richey			1 45
	A302	3,980,143	09-14-1976	Swartz et al.			

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

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Substitut	te for form 1449A/PTO			Application Number	10/717,422
;			Filing Date November 19, 2003  First Named Inventor Vail III  Group Art Unit 3672  Examiner Name Unknown  Attorney Docket Number WEAT/0526.P1	November 19, 2003	
INFO	DRMATION DIS	ദവാ	SURF	First Named Inventor	Vail III
	TEMENT BY A	-		Group Art Unit	3672
	,			Examiner Name	Unknown .
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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subcl	Filing Date If Appropriate
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:	A304	3,945,444	03-23-1976	Knudson			
	A305	3,885,679	05-27-1975	Swoboda, Jr. et al.			141
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:	A307	3,870,114	03-11-1975	Pulk, deceased et al.			
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	A309	3,838,613	10-01-1974	Wilms			
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2	A311	3,747,675***	07-24-1973	Brown			
	A312	3,729,057	04-24-1973	Werner			
, ,	A313	3,692,126	09-19-1972	Rushing et al.			
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	A318	3,559,739	02-02-1971	Hutchison			
	A319	3,570,598	03-16-1971	Johnson			
,	A320	3,552,510	01-05-1971	Brown			
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	A324	3,518,903	07-07-1970	Ham, et al.			<u> </u>
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Substitute for form 1449A/PTO			Application Number	10/717,422
			Filing Date	November 19, 2003
INFORMATION D	DISCLOS	SURE	First Named Inventor	Vail III
STATEMENT BY			Group Art Unit	3672
			Examiner Name	Unknown
(Use as many sheets	as necessary,	)	Attorney Docket Number	WEAT/0526.P1
Sheet 21	of	29	Submission Date	July 30, 2004

Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subclass	Filing Date If Appropriate
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	A329	3,122,811	03-03-1964	Gilreath			
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	A332	2,692,059	10-19-1954	Bolling, Jr.			
	A333	2,668,689	02-09-1954	Cormany			
	A334	2,650,314	08-25-1953	Hennigh, et al.			4
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	A338	2,214,429	09-10-1940	Miller			
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	À351	2002/0066556		Goode et al.			08/02/2001
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Substitute	INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (Use as many sheets as necessary)			Application Number	10/717,422
•				Filing Date	November 19, 2003
INFO	RMATION DIS	SCLOS	SURE	First Named Inventor	Vail III
				Group Art Unit	3672
				Examiner Name	Unknown
	(Use as many sheets as	necessary)		Attorney Docket Number	WEAT/0526.P1
Sheet	22	of	29	Submission Date	July 30, 2004

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*Examiner Initial		Document Number	Issue Date	Applicant(s) Name	Class	Subcl ass	Filing Date If Appropriate
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Examiner					Date Co	nsidered	

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Substitute	for form 1449A/PTO			Application Number Filing Date	10/717,422 November 19, 2003
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Sheet	23	of	29	Submission Date	July 30, 2004

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r Initial		Number					YES	NO
	B74	WO 02/086287	10-31-2002	WIPO	E21B	47/01		$\boxtimes$
	B75	WO 01/94739	12-13-2001	WIPO	E21B	7/20		. 🛛
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	B78	WO 01/79650	10-25-2001	WIPO	E21B	10/60		$\boxtimes$
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	B86	WO 00/11309	03-02-2000	WIPO	E21B	19/16		×
	B87	WO 00/05483	02-03-2000	WIPO	E21B	19/16		×
	B88	WO 98/55730	12-10-1998	WIPO	E21B	23/00		×
	B89	WO 97/08418	03-06-1997	WIPO	E21E	4/18		×
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	B91	EP 1 050 661	11-08-2000	EP	E21B	7/18		×
	B92	EP 0 571 045	08-19-1998	EP	E21B	7/06		Ø
	B93	GB 2 216 926	10-18-1989	UK	E21B	7/20		×
	B94	SU 1618870	01-07-1991	Russia	E21B	33/14		×
	B95	WO 96/28635	09-19-1996	WIPO	E21B	17/14		☒

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Substit	ute for form 1449A/PTO			Application Number	10/717,422
				Filing Date	November 19, 2003
INF	ORMATION DISC	CLOS	SURE	First Named Inventor	Vail III
	TEMENT BY AF			Group Art Unit	3672
		,		Examiner Name	Unknown
	(Use as many sheets as ne	ecessary	)	Attorney Docket Number	WEAT/0526.P1
She	et 24	of	29	Submission Date	July 30, 2004

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*Examiner Initial		Including Author, Title, Date, Pertinent Pages, Etc.					
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	C22	De Leon Mojarro, "Breaking A Paradigm: Drilling With Tubing Gas Wells," SPE Paper 40051, SPE Annual Technical Conference And Exhibition, March 3-5, 1998, pp. 465-472					
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	C27	Vogt, et al., "Drilling Liner Technology For Depleted Reservoir," SPE Paper 36827, SPE Annual Technical Conference And Exhibition, October 22-24, pp. 127-132					
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	C32	Silverman, "Novel Drilling Method – Casing Drilling Process Eliminates Tripping String," Petroleum Engineer International, March 1999, p. 15					
	C33	Silverman, "Drilling Technology – Retractable Bit Eliminates Drill String Trips," Petroleum Engineer International, April 1999, p. 15					
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Substitute	for form 1449A/PTO			Application Number	10/717,422
				Filing Date	November 19, 2003
INFO	RMATION DISC	:I O	SURF	First Named Inventor	Vail III
	EMENT BY AP			Group Art Unit	3672
		,		Examiner Name	Unknown
	(Use as many sheets as ne	cessary	)	Attorney Docket Number	WEAT/0526.P1
Sheet 25 of 29				Submission Date	July 30, 2004

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	C35	Madell, et al., "Casing Drilling An Innovative Approach To Reducing Drilling Costs," CADE/CAODC Paper 99-121, CADE/CAODC Spring Drilling Conference, April 7 & 8, 1999, pp. 1-12
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	C39	Warren, et al., "Casing Drilling Application Design Considerations," IADC/SPE Paper 59179, IADC/SPE Drilling Conference, February 23-25, 2000 pp 1-11
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	C46	Shephard, et al., "Casing Drilling Successfully Applied In Southern Wyoming," World Oil, June 2002, pp. 33-41
	C47	Forest, et al., "Subsea Equipment For Deep Water Drilling Using Dual Gradient Mud System," SPE/IADC Drilling Conference, Amsterdam, The Netherlands, February 27, 2001-March 01, 2001, 8 pages
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10/717,422 **Application Number** Substitute for form 1449A/PTO Filing Date November 19, 2003 First Named Inventor INFORMATION DISCLOSURE Vail III **Group Art Unit** 3672 STATEMENT BY APPLICANT **Examiner Name** Unknown (Use as many sheets as necessary) Attorney Docket Number WEAT/0526.P1

Sheet	26		of	29	Submission Date		July 30, 2004
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INVENTOR: Vail 111
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